

Catalog	Unit
TBI1399 - 1MG	1 mg
TBI1399 - 5MG	5 mg

Product Details

Formal Name: (1R,2R)-2-[(2S,4E,6E,8R,9S,11R,13S,15S,16S)-7-cyano-8,16-dihydroxy-9,11,13,15-tetramethyl-18-oxo-1-oxacyclooctadeca-4,6-dien-2-yl]cyclopentane-1-carboxylic acid

Alternate Names: U-78548; C2989; Treponemycin

Molecular Formula: C₂₈H₄₃NO₆

Formula Weight: 489.66

CAS Number: 7184-60-3

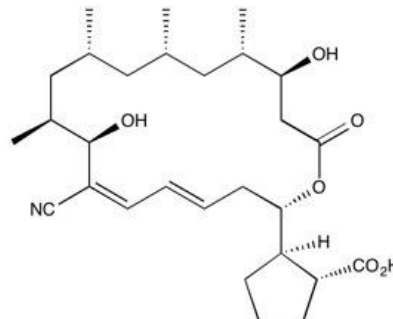
Purity: 98%

Formulation: Powder

Solubility: Soluble in DMSO or in Ethanol

Storage: -20°C

Stability: ≥ 2 years.



Applications

Threonyl-tRNA synthase inhibitor; Angiogenesis inhibitor

Functions

Borrelidin (7184-60-3) is a novel macrolide which inhibits bacterial and eukaryotic threonyl-tRNA synthetase.

Displays potent anti-angiogenic activity (IC₅₀ = 0.8 nM) and induces the collapse of newly formed capillary tubules.

Modulates alternative splicing of VEGF in favor of anti-angiogenic isoforms. Induces apoptosis in ALL cell lines.

Induces unfolded protein response in oral cancer cells. Cell permeable.

Application Procedures

First dissolved in DMSO or ethanol, then diluted to aqueous buffer. Solutions in DMSO or ethanol may be stored at -20°C for up to 3 months.

Relative Products

TBI1170	Mitomycin C
TBI1345	E64, Cysteine protease inhibitor
TBI1347	E64d, Cysteine protease inhibitor
TBI2064	Chromomycin A3
TBI2069	Cytochalasin B
TBI2794	5-EDU, DNA Click labeling probe
TBI2071	Cytochalasin D
TBI1286	Bestatin, Aminopeptidase inhibitor
TBI2140	Gemcitabine
TBI2058	Aphidicolin, DNA polymerase Inhibitor

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